Amendments to the Claims

Please cancel Claims 4-5, 11-13, 17 and 20.

Please amend Claims 1, 3, 7 and 8.

Please add new Claims 21-31.

The Claim Listing below will replace all prior versions of the claims in the application:

Claim Listing

What is claimed is:

- 1. (Currently Amended) A method of treating TNFα-mediated <u>disease which results in joint ankylosis stiffness</u> in a human comprising administering to the human an effective TNFα-inhibiting amount of an anti-TNFα <u>chimerie</u> antibody <u>or antigen-binding fragment</u> thereof, said antibody comprising a human constant region, wherein said anti-TNFα <u>chimerie</u> antibody <u>or antigen-binding fragment (i)</u> competitively inhibits binding of <u>A2</u> (ATCC Accession No. PTA-7045) to human TNFα to anti-TNFα chimeric monoclonal antibody cA2, and (ii) binds to a neutralizing epitope of human TNFα *in vivo* with an affinity of at least 1 x 10⁸ liter/mole, measured as an association constant (Ka), as determined by Scatchard analysis.
- 2. (Canceled)
- 3. (Currently Amended) A method of treating TNFα-mediated <u>disease which results in joint ankylosis stiffness</u> in a human comprising administering to the human an effective TNFα-inhibiting amount of anti-TNFα <u>chimeric monoclonal antibody cA2</u> or <u>antigen-binding fragment thereof</u>, said antibody comprising a human IgG1 constant region, wherein said <u>anti-TNFα antibody or antigen-binding fragment (i) competitively inhibits binding of A2</u> (ATCC Accession No. PTA-7045) to human TNFα, and (ii) binds to a neutralizing epitope of human TNFα *in vivo* with an affinity of at least 1 x 10⁸ liter/mole, measured as an association constant (Ka), as determined by Scatchard analysis.

Claims 4-6. (Canceled).

- 7. (Currently Amended) A method of treating TNFα-mediated <u>disease which results in joint ankylosis stiffness</u> in a human comprising administering to the human an effective TNFα-inhibiting amount of an anti-TNFα <u>chimeric</u> antibody, wherein said anti-TNFα <u>chimeric</u> antibody comprises <u>a human constant region and</u> a non-human variable region comprising an amino acid sequence selected from the group consisting of SEQ ID NO.:3 and SEQ ID NO.:5.
- 8. (Currently Amended) A method of treating TNFα-mediated <u>disease which results in joint ankylosis stiffness</u> in a human comprising administering to the human an effective TNFα-inhibiting amount of an anti-TNFα chimeric antibody, wherein said anti-TNFα chimeric antibody comprises an IgG1 human constant region and a non-human variable region comprising an amino acid sequence selected from the group consisting of SEQ ID NO.:3 and SEQ ID NO.:5.
- 9. (Original) The method of Claim 7 wherein the non-human variable region comprises a polypeptide encoded by a nucleic acid sequence selected from the group consisting of SEQ ID NO.:2 and SEQ ID NO.: 4.
- 10. (Original) The method of Claim 8 wherein the non-human variable region comprises a polypeptide encoded by a nucleic acid sequence selected from the group consisting of SEQ ID NO.:2 and SEQ ID NO.: 4.

Claims 11-13. (Canceled).

14. (Previously Presented) The method of Claim 1 wherein said anti-TNFα antibody is administered to the human by means of parenteral administration.

- 15. (Previously Presented) The method of Claim 1 wherein said anti-TNFα antibody is administered to the human by means of intravenous administration.
- 16. (Previously Presented) The method of Claim 1 wherein said anti-TNFα antibody is administered to the human by means of subcutaneous administration or intramuscular administration.
- 17. (Canceled).
- 18. (Previously Presented) The method of Claim 1 wherein said TNFα-inhibiting amount of the anti-TNFα antibody comprises a single or divided dose of about 0.1 50 mg/kg.
- 19. (Previously Presented) The method of Claim 18 wherein said single or divided dose is selected from the group consisting of: about a 0.1 1 mg/kg dose, about a 1.0 5 mg/kg dose, about a 5 10 mg/kg dose and about a 10 20 mg/kg dose.
- 20. (Canceled).
- 21. (New) The method of Claim 1, wherein said antigen-binding fragment is selected from the group consisting of Fab, Fab', F(ab')₂ and Fv.
- 22. (New) The method of Claim 1, wherein said antibody or antigen-binding fragment is of immunoglobulin class IgA, IgG1, IgG2, IgG3, IgG4 or IgM.
- 23. (New) The method of Claim 1, wherein said antibody or antigen-binding fragment comprises a human constant region and a human variable region.
- 24. (New) The method of Claim 1, wherein said antibody or antigen-binding fragment comprises at least one human light chain and at least one human heavy chain.

- 25. (New) The method of Claim 1, further comprising administering to the human an effective amount of an anti-inflammatory agent effective to treat the TNFα-mediated disease which results in joint stiffness.
- 26. (New) The method of Claim 25, wherein the anti-inflammatory agent is selected from the group consisting of: pentasa, mesalazine, asacol, benorylate, fenbufen, etodolac, indomethacin and aspirin.
- 27. (New) The method of Claim 1, further comprising administering to the human an effective amount of a pain control agent to treat pain associated with the TNFα-mediated disease which results in joint stiffness.
- 28. (New) The method of Claim 27, wherein the pain control agent is selected from the group consisting of: paracetamol and dextropropoxyphene.
- 29. (New) The method of Claim 1, further comprising administering to the human an effective amount of a disease-modifying anti-rheumatic drug.
- 30. (New) The method of Claim 25, wherein the anti-inflammatory agent is selected from the group consisting of: codeine phosphate, naprosyn, diclofenac and ibuprofen.
- 31. (New) The method of Claim 1, further comprising administering to the human an effective amount of methotrexate.